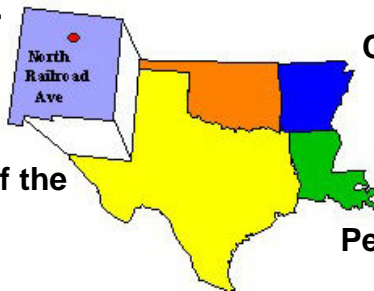


**NORTH RAILROAD AVENUE  
PLUME  
(RIO ARRIBA COUNTY)  
NEW MEXICO**

**(Within the exterior boundaries of the  
Santa Clara Indian Reservation)**



**EPA REGION 6  
CONGRESSIONAL DISTRICT 3**

**Contact:  
214-665-6686**

**Petra Sanchez**

**Updated: November 2006**

**EPA ID# NMD986670156  
Site ID: 0604299**

## **Current Status**

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NMED, the state lead on the Remedial Action at the site is currently implementing the six-phase remedy treatment. The well installation phase of the remedy was completed November 2005. The two treatment buildings have been erected for the source area and bio-curtain along U.S. Highway 84/285, and in the deep zone near the Plaza de Espanola area.

The SEAR (surfactant enhanced aquifer remediation) system operation has been postponed for 2007 while the bioremediation phase is moved ahead of schedule. Additional characterization of the aquitard will be performed to assist in improving the removal of the DNAPL (dense, non-aqueous phase liquid) from the source area. The bioremediation pilot pre-test is currently under final development. It is expected to last one year and is scheduled to begin November 2006.

## **Benefits**

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- The investigation of the ground water contamination identified the source of contamination, the extent of the ground water contamination, and its potential threat to the public drinking water supply.
- Remediation of the contaminated media will protect the area drinking water supply and the Rio Grande from future chlorinated solvent contamination.

## **National Priorities Listing (NPL) History**

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NPL Inclusion Proposal Date:	July 28, 1998
NPL Inclusion Final Date:	January 19, 1999
NPL Deletion Proposal Date:	n/a
NPL Final Deletion Date:	n/a

## **Site Description**

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**Location:** The site is located in Espanola, Rio Arriba County, New Mexico, within the exterior boundary of the Santa Clara Indian Reservation. The Santa Clara Pueblo is located one mile south of the site. The site is located within the central business district of the town of Espanola. This central district includes service businesses, light industrial activities, as well as residential properties, and subsistence farming land.

**Population:** The 1990 U.S. Census estimated the population of Espanola to be 8,389 people. The Hispanic and Native American community comprise approximately 50% of the population. The Santa Clara Pueblo has a population of 2,400 people.

**Setting:** The site consists of a contaminated ground water plume extending approximately 58 acres in elliptical shape  $\frac{3}{4}$  miles south of 113 North Railroad Avenue. The release of PCE contamination originated at the Norge Town Laundromat and Dry Cleaning operation.

## Health Considerations

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- There is a potential for elevated health risk levels associated with two types of chlorinated hydrocarbon compounds detected in the ground water including, tetrachloroethylene, trichloroethylene, cis-1, 2-dichloroethylene, and trans-1, 2-dichloroethylene. Pathways of concern are through ingestion, inhalation, or dermal contact with contaminated ground water.
- Tetrachloroethylene is the leading concern at this site because it is most widespread and found in the highest concentrations in ground water.

## Record of Decision

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Record of Decision Signed: September 27, 2001

The major components of the Selected Remedy include solvent flushing for the DNAPL component of the ground water contamination and in-situ biological treatment for the dissolved contamination. Soil vapor extraction from soil located at the source area is part of the remedy. A restrictive covenant is in place and prohibits the drilling of ground water wells within the affected ground water.

## Site Contacts

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EPA Remedial Project Manager:	Petra Sanchez	214-665-6686 or 1-800-533-3508
EPA Site Attorney:	Barbara Nann	214-665-2157 or 1-800-533-3508
EPA Community Involvement:	Duke Ducote	214-665-6658 or 1-800-533-3508
EPA Technical Assistance Grant:	Beverly Negri	214-665-8157 or 1-800-533-03508
NMED Project Manager:	Steve Jetter	505-827-0072
EPA Regional Public Liaison:	Arnold Ondarza	214-665-6790 or 1-800-533-3508
Site Repository:	Espanola Public Library	